

MEMO ROUTE SLIP		See me about this.	For concurrence.	For action.
Form AEC-93 (Rev. May 14, 1947)		Note and return.	For signature.	For information.
TO (Name and unit) <i>Ward Miller 341</i>	INITIALS	REMARKS		
	DATE			
TO (Name and unit)	INITIALS	REMARKS		
	DATE			
TO (Name and unit)	INITIALS	REMARKS		
	DATE			
FROM (Name and unit) <i>B. M. Fug library #5</i>	REMARKS	<i>Attached is copy of AEC document list with items sent to NSRB checked in re/ Remaining documents will be obtained from Dolk Ridge & forwarded.</i>		
	PHONE NO.	DATE <i>10/24</i>		

USE OTHER SIDE FOR ADDITIONAL REMARKS

16-58667-1 U. S. GOVERNMENT PRINTING OFFICE

Appendix D

SELECTED BIBLIOGRAPHY OF UNCLASSIFIED REPORTS AND PUBLICATIONS
OF THE AEC AND MED PERTAINING TO CIVILIAN DEFENSE AGAINST ATOMIC BOMBINGS

<u>Contents</u>	<u>Page</u>
A. Radiation Detection	2
B. Radiation Protection	5
C. Radiation Sickness (Biological and Medical Effects)	7
D. Shielding Against Radiation Effects	11
E. Effects of Atomic Bombings on Hiroshima and Nagasaki	12
F. Decontamination and Disposal of Radioactive Materials	13

October 1949
U. S. Atomic Energy Commission
Washington, D. C.

REF ID: A6161 16-1
Civil Defense

A. Radiation Detection

1. Argonne National Laboratory. High Intensity Beta-Gamma Instrument, Mark 2 - Model 10 - Betty Snoops. May 1947. (MDDC-883)
2. Bale, W. F. Rochester Ion Meter Construction and Operation Details. Jan. 1945. 30 p. (MDDC-1651)
3. Bale, W. F. Operation Manual for Rochester Ion Meter and Accessory Chambers. May 9, 1945. 21 p. (AECD-1789)
4. Bibliography: Radiation Detection. Prepared by the U. S. Atomic Energy Commission. July 1949. 144 p.

Comprehensive literature survey of all aspects of radiation detection, with particular reference to types and uses of detection instruments.

5. Bell, P. R. Pocket Radiation Alarm. 10 p. (MDDC-1180).
6. Bradley, W. H. The Beta-Gamma Hand and Foot Counters. April 1947. (MDDC-800)
7. Cassen, Benedict, and Lawrence Curtis. Development of a Tissue Radiation Fluorimeter. Dec. 15, 1948. 7 p. (AECD-2447).
8. Cheka, J. S. Neutron Monitoring by Means of Special Fine Grain Emulsion Film. April 1947. (MDDC-890).
9. Clinton Laboratories. Photographs of Health Physics Instruments Used at Clinton Laboratories. (MDDC-1397)
10. Deal, L. J., and K. Z. Morgan. Personnel Monitoring at Clinton Laboratories. March 1947. 25 p. (MDDC-1204).
11. Dessauer, G. A Portable Micro-r-Meter. July 14, 1944. 16 p. (MDDC-1484).
12. Elliott, W. A Low Absorber Counter (MDDC-1344)
13. Fisher, H. U. Instrument Work in an Atomic Energy Laboratory. June 1947. (MDDC-1059).
14. Fisher, H. U., and C. O. Ballou. Cutie Pie, A Portable Radiation Instrument. June 1947. (MDDC-997).
15. Kinch, W. H. Geiger Counter Radiation Meter. May 1947. (MDDC-902).
16. Gallagher, J., and M. Sands. Model 100 Counting Rate Meter. Oct. 7, 1946. (MDDC-1297)
17. Gamertsfelder, C. C. Calculations for Use with the Fast Neutron Meter. July 21, 1944. (AECD-2173)

Radiation Detection (cont'd.)

18. Jaffey, A. H., and T. P. Kohman, J. A. Crawford. A Manual on the Measurement of Radioactivity. (MDDC-388).
19. Jarrett, A. A. Statistical Methods Used in the Measurement of Radioactivity. Some Useful Graphs. June 17, 1946. (MonP-126).
20. Jesse, W. P. Survey Instrument, Mark 1, Model 10, Zeuto. Circuit diagram. (MDDC-117).
21. Jesse, W. P. The Role of Instruments in the Atomic Bomb Project. (MDDC-289).
22. Jordan, W. H. New Developments in Instruments for Detecting Nuclear Particles. April 1947. (MDDC-811).
23. Landsverk, O. G. Description of and Instruction for Operation and Maintenance of a New Model Gamma Ray Pocket Survey Meter. May 1947. (MDDC-952).
24. Landsverk, O. G. Operating Instructions for the Gamma-Beta Ray Survey Meter. Oct. 13, 1944. (AECD-1935).
25. Landsverk, O. G. A Survey Meter for the Measurement of Alpha, Beta, and Gamma Rays, Fast and Slow Neutrons. Apr. 22, 1946. (MDDC-396).
26. Nier, A. Q., and C. M. Stevens, T. A. Abbott, J. K. Pickard. Recording Ionization Chamber for Traces of Radioactive Gases; in NNES Vol. 16, Div. II. Apr. 22, 1946. (MDDC-63).
27. Nierman, L. The Use of Hearing-Aid Type Tubes in Portable Counting-Rate Meters and Amplifiers. (MDDC-725).
28. Oak Ridge National Laboratory. Oak Ridge National Laboratory Instrument Manual Book II, Part I. Apr. 4, 1948. (CF-48-5-133).
29. Overbeck, W. P. Instrumentation of the Hanford Engineer Works. (MDDC-242).
30. Palevsky, H., and R. K. Swank, R. Grenchik. Design of Dynamic Condenser Electrometers. Feb. 22, 1946. (MDDC-38).
31. Pannell, James H. Radioactivity Measurement Techniques. 10 p. (AECD-2270)
32. Pardue, L. A., and N. Goldstein, E. O. Wollan. Photographic Film as a Pocket Radiation Dosimeter. Apr. 1944. (MDDC-1065).
33. Parker, H. M. Hand Count Procedures at Clinton Laboratories. Sept. 1944. (AECD-1840).
34. Parsons, J. H. Electronic Classifying, Cataloging, and Counting Systems. (AECD-1827).
35. Poole, J. R. (Austin Company) Monitor System. Five-Channel Geiger-Mueller Counter for Detecting Beta-Gamma Contamination of the Hands and Feet. Apr. 1, 1949. (M-4318).

Radiation Detection (Cont'd.)

36. Reed, C. W., and C. F. Foster. (Clinton Laboratories). The Hand and Foot Counter Factor. June 12, 1947. (MonP-329).
37. Schafer, Wm. D. The Use of Standard Broadcast Receivers as Radioactive Indicators. (AECD-2310).
38. Shonka, F. R. Instrument Research and Development Division; Summary Report for December 1948, January and February 1949. (ANL-4260).
39. Wakefield, E. Manufacturing Specifications for Higinbotham Scaler. April 1947. (MDDC-831).
40. Watts, R. J. Construction of a Hand-Contamination Counter and Radiation Monitor. Oct. 1944. (MDDC-1639).
41. Watts, R. Radiation Meter Model "A". Apr. 22, 1946. (MDDC-1692).
42. Wiegand, C. Balanced Ionization Chamber for Differential Measurements of Gamma Rays. (MDDC-1098).
43. Wu, C. S., and L. J. Rainwater. Portable Alpha-Activity Measuring Instrument. May 25, 1948. (AECD-2051).

B. Radiation Protection

1. Argonne National Laboratory. Radiation Hazard Control. May 3, 1948. (ANL-4146).
2. Bale, W. F. Health Protection in the Production and Use of Atomic Energy. (MDDC-536).
3. Cantril, Simeon T. Industrial Medical Program - Hanford Engineer Works. Nov. 15, 1946. (MDDC-602). ✓
4. Cantril, S. T., and J. J. Nickson, J. E. Wirth, R. S. Stone. Requirements of an Adequate Health Service in Relation to Atomic Research and Industrial Development. (MDDC-686).
5. Cantril, S. T. Safety Rules and Procedures Concerning Activity Hazards. (MDDC-992).
6. Cantril, S. T., and H. M. Parker. The Status of Health and Protection at Hanford Engineer Works. July 1946. (MDDC-1198). ✓
7. Cowan, F. P. Health Physics Practice; in Conference on Biological Applications of Nuclear Physics; July 12-27, 1948. (BNLC-4).
8. Dessauer, Gerhard, and Edwin Lennox. Photographic Neutron Dosimetry to Date. July 14, 1944. (AECD-2278). ..
9. Felton, J. S. Industrial Health and Medical Rehabilitation at an Atomic Energy Laboratory. (MDDC-554). ✓
10. German, L. L., and H. M. Rozendaal. Physical and Medical Aspects of Radiation. 1948. (KAPL-P-3).
11. German, L. L. Nuclear Engineering Course, 1948-1949; Health-Physics I. Dec. 16, 1948. (KAPL-PC-162).
12. Morgan, K. Z. Health Physics and Its Control of Radiation Exposures at Clinton Laboratories. May 1947. (MDDC-937). ✓
13. Morgan, Karl Z. Health Physics and Radiation Protection. (AECD-2217).
14. Nickson, J. J. Protective Measures for Personnel; NNES, Div. IV, Vol. XXA, Chap. III. (AECD-2424).
15. Parker, H. M. Health-Physics, Instrumentation, and Radiation Protection. April 1947. (MDDC-783).
16. Ray, W. H. Determination of Particulate Air-Borne Long-Lived Activity. (MDDC-1503).

Radiation Protection (Cont'd.)

17. Rozendaal, H. M. Nuclear Engineering Course, 1947 - 1948; Medical Aspects of Nuclear Engineering. Dec. 18, 1947. (KAPL-PC-141).
18. Sullivan, William H. Rules and Procedures Concerning Radioactive Substances Associated Hazards. Sept. 27, 1946. (M-3246).
19. Tompkins, P. C. Laboratory Handling of Radioactive Material: Protection of Personnel and Equipment. (MDDC-1527). ✓
20. Wirth, J. E. General Rules and Procedures Concerning Activity Hazards. July 5, 1946. (MDDC-247). ✓
21. Wirth, J. E. Management and Treatment of Exposed Personnel. Jan. 1947. (MDDC-1728). ✓

C. Radiation Sickness (Biological & Medical Effects)

1. Allen, J. G. and M. Sanderson, L. O. Jacobson. Hyperheparinemia - The Cause of Hemorrhagic Disease Produced by Total Body Exposure to Ionizing Radiations. (MDDC-481).
2. Allen, J. G. and M. Sanderson, L. O. Jacobson. Hyperheparinemia - The Cause of the Hemorrhagic Disease Produced by Total Body Exposure to Ionizing Radiations. May 1947. (MDDC-836).
3. Allen, J. Garrott and Katherine Lathrop, Margaret Sanderson. A Protamine Titration which Reflects a Clotting Defect in the Irradiated Dog, and in Certain Types of Human Hemorrhagic Disease. Nov. 1, 1948. (ANL-4227, p. 122-129).
4. Barnett, Thomas B. Experimental Radiation Pathology. (AECD-2614).
5. Barron, E.S.G. Some Aspects of the Biological Action of Radiation. (MDDC-484).
6. Bishop, F. W. Comparison of X and B Radiation Effects in Rabbits. (MLDC-203).
7. Boche, Robert D. and Francis W. Bishop. Studies on the Effects of Massive Doses of Roentgen Radiation on Mortality in Laboratory Animals. NNES. (MDDC-250).
8. Brookhaven National Laboratory. Conference on Biological Applications of Nuclear Physics; July 12-27, 1948. July 1948. (BNL-C-4).
9. Cantril, S. T. and Jacobson, J. J. Nickson. The Effects of Irradiation on the Blood and Blood Forming Tissues. (MLDC-991).
10. Cantril, S. T. and H. M. Parker. The Tolerance Dose. (MDDC-1100).
11. Cantril, Simeon T. Biological Bases for Maximum Permissible Exposures; in PPR Vol. 20, Chap. 2. July 18, 1946. (MDDC-601).
12. Cohn, W. E. Radiotoxicity of Inhaled or Ingested Radioactive Products. July 1944. (MLDC-1656).
13. Copp, D. H. and D. J. Axelrod, J. G. Hamilton. The Deposition of Radioactive Metals in Bone as a Potential Health Hazard. (MDDC-455).
14. Craddock, C. G. and J. S. Lawrence. Hemophilia: A report of the Mechanism of the Development and Action of an Anticoagulant in two Cases. June 1947. (MDDC-1076).
15. Crayer, L. F. Tolerance to Whole-Body Irradiation of Patients with Advanced Cancer. (MDDC-993).
16. Dickie, A. and L. H. Hempelmann. Morphologic Changes in the Lymphocytes of Persons Exposed to Ionizing Radiation. July 1947. (MLDC-1102).

Radiation Sickness (Cont'd.)

17. Dowdy, Andrew H. (Univ. of Rochester - Douglas Aircraft Co., Inc. - Proj. RAND) Medical and Biological Aspects of Nuclear Energy. Aug. 13, 1947. (RAD-202).
18. Failla, G. Tolerance Concentration of Radioactive Gases in Air. Nov. 1942. (AECL-2362).
19. Field, John B. and Paul E. Rekers (Univ. of Rochester) Studies of the Effects of Flavonoids on Roentgen Irradiation Disease. II. Comparison of the Protective Influence of Some Flavonoids and Vitamin C in dogs. Jan. 19, 1949. (UR-57).
20. Finkel, R. D., et al. The Toxicity and Metabolism of Plutonium in Laboratory Animals. Aug. 1946. (MEDC-1140). ✓
21. Flick, J. J. Ocular Lesions Following the Atomic Bombing of Hiroshima and Nagasaki. June 1947. (MEDC-936).
22. Henshaw, P. S. and R. S. Snider. Correlation of Tissue Responses Following Exposure to Penetrating Radiations. July 1946. (MEDC-569). ✓
23. Henshaw, P. S. and E. F. Riley, G. E. Stapleton. The Biological Effects of Fission Radiations. (MEDC-259).
24. Henshaw, P. S. and R. S. Snider. Review of Information Bearing on Tumor Inducing Action of Superficial Radiations. June 1946. (MDDC-570).
25. Howland, J. W. ✓Studies on Human Exposures to Uranium Compounds. (MDDC-260).
26. German, L. L. and H. M. Rozendaal (KAPL) Physical and Medical Aspects of Radiation. 1948. (KAPL-P-3).
27. Jacobson, L. O. and E. K. Marks. Clinical Laboratory Examinations of Plutonium Project Personnel. Dec. 1946. (MEDC-1262). ✓
28. Langham, W., et al. Determination of Plutonium in Human Urine. Aug. 14, 1947. (MEDC-1555).
29. Lanz, H. C. and J. D. Teresi. The Metabolism of Short Lived Air-Borne Fission Products. May 1947. (MDDC-954).
30. Lawrence, J. S. and A. H. Dowdy, W. N. Valentine. The Effects of Radiation on Hemopoiesis. May 1947. (MEDC-853).
31. Lawrence, J. S. and W. N. Valentine, A. H. Dowdy. Is There an "Indirect" Effect of Radiation. (MEDC-326).
32. Lorenz, Egon. Biologic Effects of Long-Continued Whole Body Irradiation with Gamma Rays on Mice, Guinea Pigs, & Rabbits; Pt. IV. Conclusions and Applicability of Results to the Problem of Human Protection. Nov. 14, 1946. (MDDC-656).

Radiation Sickness (Cont'd.)

33. Low-Beer, B. V. A., and E. R. Miller (Univ. of Calif.) Hematological Reactions to Total Body Irradiation. Report for period of Feb. 16-28, 1946. (M-3076).
34. Low-Beer, B.V.A. and E. R. Miller (Univ. of Calif.) Hematological Reactions to Total Body Irradiations. Report for period of June 1-30, 1946. (M-3080).
35. Marks, E. K. and George Sacher, L. O. Jackson. Hematological Studies of Plutonium Project Personnel. Effect of Exercise on Leucopenia. A Statistics Analysis. Feb. 1948. (AECL-2133).
36. Morgan, K. Z. Tolerance concentrations of Radioactive Substances. (MEDC-240)
37. Nickson, J. J. Protective measures for Personnel; NNES, Div. IV, Vol. XXA, Chap. III, Dec. 13, 1946. (AECD-2424).
38. Nickson, M. A Study of the Hands of Radiologists. June 1, 1947. (MEDC-1309)
39. Patt, Harvey M. and Marguerite N. Swift, Ralph Clayton, Ella B. Tyree, Robert L. Straube. Progress Report - Physiology. May 1, 1948. (ANL-4163).
40. Pearlman, N. and G. A. Sacher. Changes in Mean Blood Levels of Metallurgical Lab. Employees during the First Year of Employment, as Related to Working Conditions. June 1946. (AECL-2030).
41. Raper, John R. and Raymond E. Zirkle, Kenneth K. Barnes. Comparative Lethal Effects of External Beta Irradiation. Feb. 12, 1946. (MDDC-439).
42. Rozendaal, H. M. Nuclear Engineering Course, 1947-1948; Medical Aspects of Nuclear Engineering. Dec. 18, 1947. (KAPL-PC-141).
43. Schwartz, S. et al. Studies of the Hemolytic Effect of Radiation. July 10, 1946. (MLIC-1342).
44. Schwartz, S. and R. Zagaria. The Effect of Metals on Coproporphyrin. (Studies of Porphria Metabolism II). (MLIC-504).
45. Schwartz, Samuel. Biochemical Studies Relating to the Effects of Radiation and Metals. Jan. 11, 1947. (AECD-2198).
46. Scott, K. G. et al. Studies on the Inhalation of Fissionable Materials and Fission Products and Their Subsequent Fate in Rats and man. August 1946. (MLIC-1276).
47. Schubert, J. Treatment of Plutonium Poisoning by Metal Displacement. (MEDC-595).
48. Seibert, H. and A. M. Potts, W. Lohr, S. Postel. Metabolism of Inhaled Fission Product Aerosols. (MEDC-248).

Radiation Sickness (Cont'd)

49. Simmons, E. L. and L. O. Jacobson, N. Perlman, C. L. Fresser. The Effectiveness of Drugs in Preventing or Alleviating X-Ray Lamage. October 1946. (MLDC-1277).
50. Skirmont, E. Blood Platelet Counting. June 1947. (MEDC-916)
51. Tobias, C. A. and P. P. Weymouth, L. R. Wasserman. Some Biological Effects Due to Nuclear Fission. (MEIC-1239).
52. Tompkins, P. C. and A. Broide, L. Wish. Methods of Analysis of Fission Products in the Experimental Biology Section. (MDEC-616).
53. UCRL. Medical and Health Livision Quarterly Report, Jan., Feb., March 1948. Part II. Biological Studies of Radiation Effects. May 28, 1948. (AECD-2099).
54. Wirth, J. E. and J. R. Reper. Reactions of Human Skin to Single Doses of Beta Rays. (MLDC-508).
55. Zirkle, R. E. Radiobiological Importance of Specific Ionization. (MDEC-444).
56. Zirkle, R. E. Components of the Acute Lethal Actions of Slow Neutrons (MLDC-585).

NATIONAL NUCLEAR ENERGY SERIES

Most of the medical and biological work of the wartime atomic energy program will be reported in the volumes of the National Nuclear Energy Series, Division IV, the Plutonium Project Record, and Division VI, the University of Rochester Project. The volumes of the National Nuclear Energy Series are being published by the McGraw-Hill Book Company, under a contract with Columbia University which represented the AEC and its research contractors who prepared the series volumes.

57. Bloom, William. Histopathology of Irradiation from External and Internal Sources.
58. Rossi, Bruno and Hans H. Staub. Ionization Chambers and Counters: Experimental Techniques.
59. Voegtlin, Carl and Harold C. Hodge. Pharmacology and Toxicology of Uranium Compounds. Part 1.
60. Voegtlin, Carl and Harold C. Hodge. Pharmacology and Toxicology of Uranium Compounds. Part 2.

D. Shielding Against Radiation

1. Burr, J. G., and W. M. Garrison. The Effect of Radiation on the Physical Properties of Plastics. June 25, 1948 (AECL-2078).
2. DeMarcus, Wendell G., and Lewis M. Nelson. Monte Carlo Calculations for Shields. Iec. 30, 1948 (AECU-47).
3. Goldberger, J. L. The Shielding of Nuclear Reactors. April 1947. (MLDC-806).
4. Levoret, M. C. Some Engineering and Economic Aspects of Nuclear Energy. Aug. 1, 1947. (MLDC-1304).

E. Effects of Atomic Bombings on Hiroshima and Nagasaki

1. Manhattan Engineer District. The Atomic Bombings of Hiroshima and Nagasaki.
2. Manhattan Engineer District. Photographs of the Atomic Bombings of Hiroshima and Nagasaki.
3. Brues, A. M. and Kisiel斯基, W. Preliminary Report on Japanese Specimens. Aug. 1, 1947. (AECD-2024-K)
4. Flick, J.J. Ocular lesions following the Atomic Bombing of Hiroshima and Nagasaki. June 1947. (MLDC-936).
5. Howland, J. N. and Warren, S. L. Effects of Irradiation from the Atomic Bomb on the Japanese. Aug. 1947. (MLDC-1301)

F. Decontamination and Disposal of Radioactive Materials

1. Carlson, A. B. The Removal of Uranium from Cloth - A Laundry Problem. (M-3322)
2. Forkner, S. F., and L. J. Deal. The Laundry of Company Work Uniforms at Clinton Laboratories. June 6, 1946. 4p. (M-3995) ✓
3. Forkner, S. F., and J. T. Sutherland. The Laundry of Company Uniforms at Clinton Laboratories. April 28, 1947. 5p. (M-3994) ✓
4. Hamilton, Joseph G. and L. H. Copp, et al. The Deposition of Plutonium and Certain Fission Products in Bone as a Decontamination Problem. July 22, 1947. 98p. (AECD-2483) ✓
5. Tompkins, P. C. Laboratory Handling of Radioactive Material: Protection of Personnel and Equipment. 24p. November 5, 1947 (MLC-1527)
6. Webb, B. H. Special Materials Bulletin No. 1. Material No. 1 - Strippable Coating. 5p. Aug. 6, 1948 (KAPL-175) ✓